

1653  
Attorney Docket No.: S0351/186588

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Patrick J. Burns

Serial No.:

09/336,328

Filed:

June 18, 1999

For:

COMPOSITIONS SUITABLE FOR  
CONTROLLED RELEASE OF THE  
HORMONE GNRH AND ITS  
ANALOGS



Art Unit: 1653

Examiner: F. Moezie

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Assistant Commissioner for Patents  
Washington, DC 20231

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Sir:

In accordance with Rules 56, 97 and 98 of the Rules of Practice in Patent Cases (37 C.F.R. §§ 1.56, 1.97, and 1.98), the publications listed on the attached modified Form PTO-1449 are enclosed with this submission for consideration by the Examiner. None of the identified materials is conceded as being prior art within the meaning of the United States patent laws.

This Information Disclosure Statement is being filed before the issuance of a first office action on the merits of the application (37 C.F.R. 1.97(b)(3)); therefore, no fee is

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*Robert B. Roberts*

U.S.S.N.: 09/336,328

Filed: June 18, 1999

For: Compositions Suitable for Controlled Release of the Hormone GnRH and its Analogs  
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believed to be due. If a fee is due, the Commissioner is authorized to charge such fee and any additional fees that may be due or credit any overpayment to Deposit Account No. 11-0855.

Respectfully submitted,



Bruce D. Gray  
Reg. No. 35,799

Date: February 22, 2001

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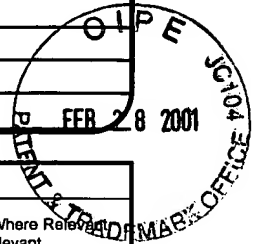
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Sheet 1 of 6

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Filing Date	June 18, 1999
First Named Inventor	Patrick J. Burns
Group Art Unit	1653
Examiner Name	F. Moezie
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**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
		2,931,802		Toney	04/05/1960	
		3,853,837		Fujino et al.	12/10/1974	
		3,992,365		Beddell et al.	11/16/1976	
		4,024,248		Konig et al.	05/17/1977	
		4,100,274		Dutta et al.	07/11/1978	
		4,411,890		Momany	10/25/1983	
		4,530,840		Tice et al.	07/23 /1985	
		4,622,219		Haynes	11/11/1986	
		4,725,442		Haynes	02/16/1998	
		4,767,628		Hutchinson	08/30/1998	
		4,891,225		Langer	01/02/1990	
		4,906,474		Langer	03/06/1990	
		4,938,763		Dunn et al.	07/03/1990	
		4,957,744		Della Valle et al.	09/18/1990	
		5,149,543		Cohen	09/22/1992	
		5,278,201		Dunn et al.	01/11/1994	
		5,278,202		Dunn et al.	01/11/1994	
		5,324,519		Dunn et al.	06/28/1994	
		5,324,520		Dunn et al.	06/28/1994	
		5,330,835		Kikuchi et al.	07/19/1994	

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		DE	1 569 231		Squibb	08/21/1969		
		JP	2096516		Dai Nippon	04/09/1990		✓
		JP	7115901		Fuji Beverage	05/09/1995		✓
		WO	95/17901	A1	Matrix Pharm.	07/06/1995		
		WO	96/39995	A1	Southern BioSystems	12/19/1996		
		WO	97/15285	A1	Axtrix Labs	05/ /1997		
		WO	91/18016	A1	Deghenghi	11/28/1991		
		WO	93/07833	A2	Peptide Tech.	04/29/1993		
		WO	98/34596	A2	3M	08/13/1998		

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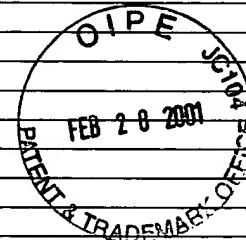
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		5,340,572		Patel et al.	08/23/1994	
		5,340,849		Dunn et al.	08/23/1994	
		5,350,741		Takada	09/27/1994	
		5,352,662		Brooks et al.	10/04/1994	
		5,391,381		Wong et al.	02/21/1995	
		5,399,363		Liversidge et al.	03/21/1995	
		5,487,898		Lu et al.	01/30/1996	
		5,545,408		Trigg et al.	08/13/1996	
		5,569,450		Duan et al.	10/29/1996	
		5,599,552		Dunn et al.	02/04/1997	
		5,702,716		Dunn et al.	12/30/1997	
		5,725,841		Duan et al.	03/10/1998	
		5,733,950		Dunn et al.	03/31/1998	
		5,736,152		Dunn	04/07/1998	
		5,739,176		Dunn et al.	04/14/1998	
		5,747,058		Tipton et al.	05/05/1998	
		5,750,100		Yamagata et al.	05/12/1998	
		5,759,563		Yewey et al.	06/02/1998	
		5,780,044		Yewey et al.	07/14/1998	
		5,840,329		Bai	11/24/1998	

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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
		WO	00/78335	A1	Southern Biosystems	12/28/2000		
		WO	98/27962	A2	Alza Corp.	07/02/1998		
		WO	98/27963	A2	Alza Corp.	07/02/1998		
		WO	98/53837	A1	Southern BioSystems	12/03/1998		
		EP	0 539 751	A1	Atrix Labs	05/05/1993		
		EP	0 539 751	B1	Atrix Labs	02/18/1998		
		EP	0 773 034	A1	Atrix Labs	05/14/1997		
		EP	0 537 559	B1	Atrix Labs	01/21/1998		
		EP	0 537 559	A1	Atrix Labs	04/21/1993		

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Examiner Name	F. Moezie
Attorney Docket Number	S0351/186588

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Sheet 4 of 6

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## **OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		"3M DDS Announces Development of New HFA-Compatible Excipients: Novel Oligomeric Acids as MDI Suspension Aids and Solubilizers," 3M Delivery Newsletter, 3M Drug Delivery Systems, Vol. 15, June 2000	
		Ajayaghosh, A., et al., "Solid-Phase Synthesis of N-Methyl and N-Ethylamides of Peptides Using Photolytically Detachable ((3-Nitro-4-((alkylamino)methyl) benzamido)methyl)polystyrene Resin," <u>J. Org. Chem.</u> , 55:2826 (1990)	
		Barb, R. et al., "Evaluation of the Saber Delivery System for the Controlled Release of Deslorelin: Effect of Dose in Estrogen Primed Ovariectomized Gilts," <u>Proceed. Int'l. Symp. Control. Rel. Bioact. Mater.</u> , 26 (1999)	
		Becker, S.E., et al. "Effects of Gonadotropin-Releasing Hormone Infused in a Pulsatile or Continuous Fashion on Serum Gonadotropin Concentrations and Ovulation in the Mare," <u>J. Anim. Sci.</u> (1992) 70:1208-1215	
		Betschart, R., et al., "Evaluation of the Saber™ Delivery System for the Controlled Release of the GnRH Analogue Deslorelin for Advancing Ovulation in Mares: Effect of Gamma Radiation," <u>Proceed. Int'l. Symp. Control. Rel. Bioact. Mater.</u> 25 (1998) Controlled Release Society, Inc. pp. 655-656	
		Bühler, K., "GnRH Agonists and Safety, In GnRH Analogues The State of the Art 1993, A Summary of the 3rd International Symposium on GnRH Analogues in Cancer and Human Reproduction, Geneva, February 1993	
		Burns, P. et al., "Pharmacodynamic Evaluation of the Saber™ Delivery System for the Controlled Release of the GnRH Analogue Deslorelin Acetate for Advancing Ovulation in Cyclic Mares," <u>Proceed. Int'l. Symp. Control. Rel. Bioact. Mater.</u> , 24 (1997), Controlled Release Society, Inc.	
		Coy, et al., "Solid Phase Synthesis of Lutcinizing Hormone-Releasing Hormone and Its Analogs," <u>Methods Enzymol.</u> 37, 416 (1975)	
		Desai, Neil P., et al. "Surface Modifications of Polymeric Biomaterials for Reduced Thrombogenicity," <u>Polymeric Materials Science and Engineering</u> , Vol. 62, 1990 by ACS	
		Duan, D. et al., "Novel Dispersing Aids for Hydrofluoroalkane-Based Metered Dose Inhalers," 1998 Conference of the American Association of Pharmaceutical Scientists, San Francisco, California, November 1998	
		Duan, D. et al., "Oligomeric Lactic Acids as Solubilizing Aids for HFA-Based Metered Dose Inhalers," 1998 Conference of the American Association of Pharmaceutical Scientists, San Francisco, California, November 1998	
		Fitzgerald, B.P., et al., "Effect of Constant Administration of a Gonadotropin-Releasing Hormone Agonist on Reproductive Activity in Mares: Preliminary Evidence on Suppression of Ovulation During the Breeding Season," <u>Am. J. Vet. Res.</u> , 54:10 1746-	
		Fleury, J., et al. "Evaluation of the Saber™ Delivery System for the Controlled Release of the Deslorelin for Advancing Ovulation in the Mare: Effects of Formulation & Dose," <u>Proceed. Int'l. Symp. Control. Rel. Bioact. Mater.</u> 25 (1998) Controlled Release Society, Inc. pp. 657-658	
		Ginter, O.J., "Reproductive Biology of the Mare: Basic and Applied Aspects, <u>EquiServices</u> , Chapter 12, 499-508 Cross Plains, Wisconsin (1970)	
		Ginter, O.J. et al. "Effect of a Synthetic Gonadotropin-Releasing Hormone on Plasma Concentrations of Lutelinizing Hormone in Ponies," <u>Am. J. Vet. Res.</u> , 35: 79-81 (1974)	

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		Ginther, O.J., "Ultrasonic Imaging and Reproductive Events in the Mare," <u>Equiservices</u> , Cross Plains, WI Chapter 4: 43-72 (1986)	
		Harrison, L., et al. "Comparison of HCG, Buserelin and Luprostiol for Induction of Ovulation in Cycling Mares," <u>J. Eq. Vet. Sci.</u> , 11:163-166 (1991)	
		Henry, C. "Sucrose Acetate Isobutyrate Special Grade for Beverage Applications"	
		Hyland, J.H., et al. "Infusion of Gonadotrophin-Releasing Hormone (GnRH) Induces Ovulation and Fertile Oestrus in Mares During Seasonal Anoestrus," <u>J. Reprod. Fert.</u> , Suppl. 35 (1987), 211-220	
		Irvine, C.H. G., "GnRH Clinical Application," In <u>Equine Reproduction</u> , (eds) McKinnon, A.O. and Voss, J.L., Chapter 36, pp. 41-45, Lea & Febiger (1993)	
		Irvine, D.S., et al., "Duration of Oestrus and Time of Ovulation in Mares Treated with Synthetic GnRH (Ay24,031)," <u>J. Reprod. Fert. Supp.</u> , 23:279-283 (1975)	
		Jochle, W., et al., "Control of Ovulation in the Mare with Ovuplant™, a Short-Term Release Implant (STI) Containing the GNRH Analogue Deslorelin Acetate: <u>J. Eq. Vet. Sci.</u> , 44:632 (1994)	
		Kulkarni et al., "Polyactic Acid for Surgical Implants," <u>Arch. Surg.</u> , 93:389 (1966)	
		LaCoste, D., et al., "Reversible Inhibition of Testicular Androgen Secretion by 3-, 5- and 6-Month Controlled-Release Microsphere Formulations of the LH-RH Agonist [D-Trp <sup>6</sup> , des-Gly-NH <sub>2</sub> <sup>10</sup> ] LH-RH Ethylamide in the Dog," <u>J. Steroid Biochem.</u> , 33:5, 1007-1011 (1989)	
		Loy, R.G. et al. "The Effects of Human Chorionic Gonadotrophin on Ovulation, Length of Estrus, and Fertility in the Mare," <u>Cornell Vet.</u> , 56:41-50 (1966)	
		Material Safety Data Sheet of Eastman Chemical Products, "SAIB" Sucrose Acetate Isobutyrate," pp. 2-18	
		Material Safety Data Sheet of Eastman Fine Chemical Pharmaceutical Ingredients, "Sucrose Acetate Isobutyrate Special Grade (SAIB-SG), Publication No. EFC-211, (May 1991)	
		Material Safety Data Sheet of Eastman Products for the Food Industry, "Sucrose Acetate Isobutyrate (SAIB-SG) for Use in Fruit-Flavored Beverages," Publication No. ZM-90, pp. 2-7 (Sept. 1989)	
		Meams, "Changing Seasons," <u>The Blood-Horse</u> , Sept. 28, 1996, p. 4794-4795	

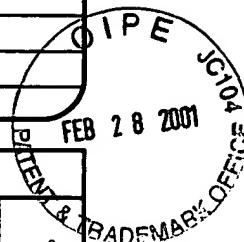
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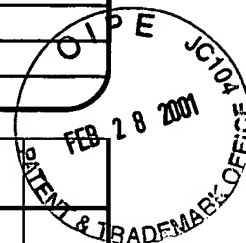
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		McCarthy, P. <i>et al.</i> , "Management of Stallions on Large Breeding Farms," <u>Stallion Management</u> , Vol. 8, No. 1, April 1992, pp. 219-235	
		McKinnon, A.O., <i>et al.</i> , "Effect of a GnRH Analogue (Ovuplant), hCG and Dexamethasone on Time to Ovulation in Cycling Mares," <u>World Equine Veterinary Review</u> , (1997) 2:3 16-18	
		McKinnon, A.O., <i>et al.</i> , "Repeated Use of a GnRH Analogue Deslorelin (Ovuplant) for Hastening Ovulation in the Transitional Mare," <u>Equine Vet. J.</u> , (1996) 29:2 153-155	
		Merrifield, B., <u>Science</u> 232:342 (1986)	
		Montovan, S.M., <i>et al.</i> , "The Effect of a Potent GnRH Agonist on Gonadal and Sexual Activity in the Horse," <u>Theriogenology</u> , 33:6, 1305-1321 (1990)	
		Mumford, E.L. <i>et al.</i> , "Use of Deslorelin Short-Term Implants to Induce Ovulation in Cycling Mares During Three Consecutive Estrovs Cycles," <u>Animal Reproduction Science</u> , 139 (1995) 129-140	
		Nett <i>et al.</i> , "Further Studies on the Radioimmunoassay of Gonadotropin-Releasing Hormone: Effect of Radioiodination, Antiserum and Unextracted Serum on Levels of Immunoreactivity in Serum," <u>Endocrinology</u> 101: 1135 (1977)	
		Rabb <i>et al.</i> , "Effects of Active Immunization Against GnRH on LH, FSH and Prolactin Storage, Secretion and Response to Their Secretagogues in Pony Geldings," <u>J. Anim. Sci.</u> , 68: 3322-3329 (1990)	
		Roser, J.J., <i>et al.</i> , "The Development of Antibodies to Human Chorionic Gonadotropins Following its Repeated Injection in the Cyclic Mare," <u>J. Reprod. Fert. Suppl.</u> , 173-179 (1979)	
		Sullivan, J., "Duration of Estrus and Ovulation Time in Nonlactating Mares Given Human Chorionic Gonadotropin During Three Successive Estrous Periods," <u>J. Am. Vet. Med. Assoc.</u> , 63:895 (1973)	
		Thompson, Jr., D.L., <i>et al.</i> , "Effects of Melatonin and Thyrotropin Releasing Hormone of Mares During the Nonbreeding Season," <u>J. Anim. Sci.</u> , 58:3, 668-677(1983)	
		Thompson, Jr., D.L., <i>et al.</i> , "Testosterone Effects on Mares During Synchronization with Altrenogest: FSH, LH, Estrous, Duration and Pregnancy Rate," <u>J. Anim. Sci.</u> , 56:3, 678-686 (1983)	
		Voss, J.L., <i>et al.</i> , "The Effect of HCG on Duration of Oestrus, Ovulation Time and Fertility in Mares," <u>J. Reprod. Fert., Suppl.</u> 23 (1975) 297-301	

Examiner Signature	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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